Appendix B. Repairer PMCS

Generic Standards

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	Ensure that all ancillary components necessary to operate the equipment or system are on hand.	Ancillary components are missing.
2	A	Ensure that all components and accessories issued with the equipment or system are on hand.	Components or accessories are not readily available.
3	A	Ensure that all TMDE required to perform CVC and PMCS are on hand and calibrated.	TMDE is not available.
4	A	Inspect for corrosion, rust, physically damaged parts, deteriorated materials, and damage to protective coatings.	Rust on outer surface parts determined by the Infection Control Nurse to be a health hazard.
5	A	Ensure the operator and maintenance manuals or documentation are on hand. Identify the location of such material if it is not packed with the equipment.	Operator and maintenance manuals are not readily available.
6	A	Verify that the equipment or system has no broken parts or accessories, i.e., switches, knobs, casters, plastic coverings, hoses, casings, etc.	Equipment is not functional due to broken parts.
7	A	Ensure that fluid levels, lubricants, physical limits or settings for operation are correct.	Levels are below those established in the TM or manufacturer's literature.
8	A	During prolonged exercises or missions involving patient treatment, scheduled testing of electrically operated medical equipment designated for use in critical care areas will be performed.	Equipment fails the electrical safety test.
9	A	Verify operation of the equipment or system in accordance with published TMs and the manufacturer's literature.	Equipment does not function according to the TM or manufacturer's literature.
10	A	Perform CVC and PMCS as necessary indicating compliance with standards. Place appropriate labels on equipment.	Equipment cannot be calibrated to TM or manufacturer's specifications.
11	A	Inspect for unusual operation, noises, leakage, or other unexpected results.	Noticeable fluid leaks or unexpected noises are detected.
12	A	Shut down equipment, and clean and dry parts or components that were subjected to liquid contact. Use of compressed air and disassembly of components to remove liquid or reagent materials may be necessary.	Unit or components are not clean or dry.
13	A	Check the electrical power cord for cuts, fraying, or deterioration.	Electrical plug is missing a pin/blade or the cord insulation is cut through the outer coating.
14	A	Ensure that alarms and visual indicators are functioning properly.	Alarms and indicators are not functioning properly.

(continued) Appendix B. Repairer PMCS

Generic Standards

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
15	A	Verify proper battery condition.	Battery will not charge or is visibly defective (when applicable).

(continued) Appendix B. Repairer PMCS

4110-01-117-3902
Refrigerator, Mechanical, Blood Bank, Model BBR37-SS-1B-01

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Refrigerator**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing items preclude operation of the unit.
		b. Check for broken, worn or damaged switches, indicators, and displays on the control panel.	Damage prevents refrigerator from operating or maintaining 36^{o} - 40^{o} F (2^{o} – 4^{o} C).
		c. Check the electrical power cord for cuts, fraying, or deterioration.	The power cord is cracked or frayed, wires are not covered by the cord insulation, or damage prevents the refrigerator from operating or maintaining 36^{o} - 40^{o} F (2^{o} – 4^{o} C).
		d. Ensure the proper power source by checking the jumper placement on the transformer.	
		e. Perform a complete operational checkout of the refrigerator.	Refrigerator does not operate or maintain 36^{o} - 40^{o} F (2^{o} – 4^{o} C).
		f. Verify temperature controls as directed by the instructions for “Setting Cutler Hammer Control” in the maintenance manual. Ensure that the compressor turns on at 40° F (4° C) and off at 36° F (2° C) when the temperature control knob is set at the number 6 position.	
2	S	**Doors**	
		a. Verify that the doors close and seal properly. Inspect door gasket for accumulation of dirt, wear, or deterioration.	Defective door gasket prevents refrigerator from operating or maintaining 36^{o} - 40^{o} F (2^{o} – 4^{o} C).
		b. Inspect the door hinges for loose or missing hardware.	Loose or missing hardware prevents refrigerator from operating or maintaining 36^{o} - 40^{o} F (2^{o} – 4^{o} C).
3	S	**Drawers**	
		Ensure that the drawers are unobstructed and move freely.	Obstructed or damaged drawers prevent refrigerator doors from sealing.
4	S	**Condensing Unit**	
		Inspect the fan's condensing unit for damage, dust, lint or other foreign substances. Inspect condenser drip pan for a buildup of grease or other deposits.	

4110-01-117-3902
Refrigerator, Mechanical, Blood Bank, Model BBR37-SS-1B-01

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
5	S	**Fan** Inspect fan and fan guard for damage, wear, and an accumulation of dust or grease.	The fan does not operate.
6	A	**Maintaining Refrigerator** a. Verify that the refrigerator has been maintained according to the Operator Preventive Maintenance Checks and Services. b. Ensure the “General Maintenance Instructions” are conducted as directed by the manufacturer’s literature. c. Verify electrical safety.	The refrigerator fails any of the electrical safety tests.
7	A	**Temperature Recorder** a. Ensure the temperature recorder is functioning as stated by the manufacturer’s maintenance manual. b. If needed, calibrate as directed by the manufacturer’s maintenance manual.	
8	A	**Temperature Surveillance Module** a. Ensure the module is installed as directed by the manufacturer’s maintenance manual. b. Ensure that the five basic functions, listed below, are operating as directed by the manufacturer’s maintenance manual. (1) Constant, 24 hour, surveillance of temperature within the refrigerator cabinet. (2) Constant display of solution (or product) temperature with provision for user to select and momentarily display temperature in another location within the refrigerator. (3) Constant monitoring of the presence of primary power to the refrigerator. (4) A “door ajar” status indicator. (5) Low battery indication. c. If needed, calibrate the T100-1 module as directed by the manufacturer’s maintenance manual.	Any of the five functions are inoperative.

(continued) Appendix B. Repairer PMCS

4110-01-159-6922
Refrigerator, Mechanical, Blood Bank, Model 139875

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Refrigerator** a. Ensure that a copy of the manufacturer's manual is on hand.	
		b. Inspect the refrigerator for obvious signs of damage such as cracks, dents, leaks or broken components.	The power cord is cracked or frayed, wires are not covered by the cord insulation, or the damage prevents the refrigerator from operating.
2	A	**Installation of the Refrigerator** Verify that the refrigerator has been installed according the Operator Preventive Maintenance Checks and Services.	
3	A	**Maintaining Refrigerator** a. Verify that the refrigerator has been maintained according to the Operator Preventive Maintenance Checks and Services.	
		b. Verify electrical safety.	The refrigerator fails any of the electrical safety tests.

(continued) Appendix B. Repairer PMCS

4110-01-287-7111
Refrigerator, Solid State, Biological, Model DLA-50T

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Refrigerator, Solid State, Biological** Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components preclude operation of the refrigerator.
2	S	**Maintaining Refrigerator** a. Verify that the refrigerator has been maintained according to the Operator Preventive Maintenance Checks and Services.	
		b. Verify that the refrigerator functions on AC current.	The refrigerator cannot function on an AC power supply.
		c. Verify that the refrigerator functions on DC current.	The refrigerator cannot function on a DC power supply.
		d. Verify the heat exchangers are clean and free of dust and dirt.	
		e. Verify the electrical safety.	Refrigerator does not pass electrical safety tests.

(continued) Appendix B. Repairer PMCS

4110-01-287-7111
Refrigerator, Solid State, Biological, Model RCB42P

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Refrigerator, Solid State, Biological** Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the refrigerator.
2	S	**Maintaining Refrigerator** a. Verify that the refrigerator functions as directed be the Operators Preventative Maintenance Checks and Services manual.	
		b. Verify that the unit functions on AC current.	The refrigerator cannot function on AC.
		c. Verify that the unit functions on DC current.	The refrigerator cannot function on DC.
		d. Check screw connections as directed by the manufacturer's service manual.	
		e. If necessary, conduct the "ACCU" as directed by the manufacturer's service manual.	
		f. Verify the electrical safety.	The refrigerator fails any of the electrical safety tests.

4110-01-352-3653
Refrigerator, Mechanical, Blood Bank, Model FT2TRBLB

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Refrigerator** a. Ensure that a copy of the manufacturer's manual is on hand.	
		b. Inspect the refrigerator for obvious signs of damage such as cracks, dents, leaks, or broken components.	The power cord is cracked or frayed, wires are not covered by the cord insulation, or the damage prevents the refrigerator from operating.
		c. Verify the electrical safety.	The refrigerator fails any of the electrical safety tests.
2	S	**Installation and Set-up** a. Verify that the condensate disposal system was installed as directed by the manufacturer's literature and the pan plugs into a 115V, 15 Amp receptacle, which should be separate from the cabinet power supply. **WARNING: THIS SYSTEM IS DESIGNED TO DISPOSE OF WATER FROM THE EVAPORATOR UNDER NORMAL OPERATING CONDITIONS ONLY. WHEN UNIT IS USED WITH ADDED ICE OR EXTRA WATER IS GENERATED BY ABNORMAL USAGE OR EXTREME AMBIENT CONDITIONS, A FLOOR DRAIN OR SIMILAR ALTERNATIVE MAY BE REQUIRED.**	
		b. If the compressor is spring mounted, verify that the hold-down nuts have been loosened. **WARNING: FAILURE TO LOOSEN THE BOLTS WILL RESULT IN EXCESS NOISE AND VIBRATION, WHICH WILL DAMAGE THE REFRIGERATION SYSTEM.**	Hold-down bolts have not been loosened.
		c. For proper performance and efficiency the refrigerator should be connected to an electrical power supply, which has no more than a 5% deviation from the specified electrical requirements.	
		d. Verify that the power cord has a three-prong grounding plug and that the cord has not been damaged during transit.	The grounding prong is missing from the plug or damage to the cord exposes bare or insulated wires.

(continued) Appendix B. Repairer PMCS

4110-01-352-3653
Refrigerator, Mechanical, Blood Bank, Model FT2TRBLB

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		e. Before turning the power switch on, check the following: (1) Visually inspect all refrigeration lines for damage during shipping and installation. (2) Be sure all wires are clear of fan blades and that the blades turn freely. (3) Check the unit compartment for oil leaks.	Damage to the refrigerator prevents safe operation of the unit.
3	S	**Maintenance and Operation** a. Verify the refrigerator maintains the set temperature.	The refrigerator does not reach the set temperature.
		b. Verify the compressor cycles properly.	Compressor fails to cycle.
		c. Verify light is working properly.	
		d. Verify rollout drawers are operational.	Drawers prevent the door from closing.

(continued) Appendix B. Repairer PMCS

6515-01-185-8446
Anesthesia Apparatus, Nitrous Oxide, Model 885A

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Anesthesia Apparatus**	
		a. Verify that the components and accessories listed on the Parts and Accessories List are on hand.	Missing components or accessories prevent operation of the unit
		b. Ensure the unit is properly assembled.	The unit cannot be assembled properly.
		c. Inspect the lower case and control headstand for damage.	Damage to lower case or headstand prevents safe operation of the unit.
		d. Verify proper operation of the non-adjustable relief valve as stated in the manufacturer's literature.	The non-adjustable relief valve does not open before the gauge needle reaches approximately 80 mm Hg.
		e. Verify proper operation of the breathing circuit pressure gauge as stated in the manufacturer's literature.	The breathing circuit pressure gauge will not rest at zero +/-1 mm Hg.
		f. Verify Leak Test Procedure Number 1 as directed in the manufacturer's literature.	There is a leak greater than 100psi after five minutes for small cylinders or seven minutes for large cylinders
		g. Verify Leak Test Procedure Number 2 as directed in the manufacturer's literature.	There is any flow of gas on any of the flow meters.
		h. Verify Leak Test Procedure Number 3A as directed in the manufacturer's literature.	The pressure on the breathing circuit pressure gauge does not rise to more than 35 mm Hg.
		i. Verify Leak Test Procedure Number 3B as directed in the manufacturer's literature.	The pressure on the breathing circuit pressure gauge does not rise to more than 35 mm Hg.
		j. Verify the proper operation of the scavenger valve as directed in the manufacturer's literature.	The pressure on the breathing pressure gauge exceeds 3 mm Hg.
		k. Verify proper vaporizer operation as directed in the manufacturer's literature.	The vaporizer fails any test in the vaporizer checkout procedure.
		l. Verify the preoperative checkout procedure as directed in the manufacturer's literature.	The anesthesia apparatus fails any test in the preoperative checkout procedure.
2	M	**Oxygen Monitor**	
		a. Verify the calibration of the oxygen monitor as directed in the manufacturer's literature.	The oxygen monitor does not calibrate.
		b. Update the Medical Equipment Verification/Certification label (DD Form 2163).	The unit has not been verified within the last six months.

(continued) Appendix B. Repairer PMCS

6515-01-291-1199
Defibrillator ECG Monitor/Recorder, Model HP 43110MC

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Defibrillator & Monitor/Recorder Module**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the defibrillator and monitor/recorder module.
		b. Inspect case, cables and connectors for damage. Inspect infrared (IR) link on outer case of defibrillator and monitor/recorder modules for cleanliness and damage.	Damaged or inoperative components preclude the operation.
		c. Inspect defibrillator paddles for cleanliness and deep pits.	Paddles are dirty or pitted.
		d. Verify the operation and function of all the controls listed in the Operator Preventive Maintenance Checks and Services.	
2	S	**Monitor/Recorder Module Checks**	
		a. Verify the following “Instrument Mode” checks as directed in the manufacturer’s literature.	The unit does not pass the battery checks.
		b. Verify the following Level II performance checks as directed in the manufacturer’s literature.	The unit does not pass the Level II performance checks.
		NOTE: Perform the ECG gain adjustment, ECG offset adjustment, and CRT adjustments only when the monitor recorder module does not perform to manufacturer’s specifications or after a repair.	
		(1) ECG amplifier noise.	
		(2) ECG amplifier gain.	
		c. Verify the following safety and maintenance checks as directed in the manufacturer’s literature.	The unit does not pass the safety and maintenance checks.
		(1) Power cord to chassis ground resistance check.	
		(2) Patient lead leakage current (source leakage) to ground.	
		(3) Leakage current between patient leads check.	
		(4) Patient lead leakage current (sink current) with 115 volts applied.	

6515-01-291-1199
Defibrillator ECG Monitor/Recorder, Model HP 43110MC

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
3	Q	**Monitor/Recorder Module Printhead** **NOTE: Always clean the printhead before performing the alignment procedure to verify that the cause is misalignment and not a dirty printhead.** Verify that the following adjustments and cleaning procedures are done as directed in Section B of manufacturer's literature. a. ECG gain adjustment. b. ECG offset adjustment. c. CRT display adjustment. d. High voltage adjustment. e. Power supply adjustment. f. Cleaning the recorder printhead. g. Printhead alignment. **NOTE: Perform printhead alignment only when the printhead does not perform to manufacturer's specifications.** **NOTE: The printhead alignment is a difficult adjustment to make because the recorder must be disassembled to access the adjustment screw.**	The defibrillator cannot be adjusted to within specifications.
4	S	**Defibrillator Module Checks** a. Verify the following "Instrument Mode" checks as directed in the manufacturer's literature. b. Verify the following Level II performance checks as directed in Section B of the manufacturer's literature. **NOTE: Perform the "Defibrillator Output Energy Calibration," "ECG Gain Adjustment," and "ECG Offset Adjustment" only when the defibrillator module does not perform to manufacturer's specifications or after a repair.** (1) Energy accuracy. (2) Self-Testing Accuracy. (3) Defibrillator Capacitor Charge Time. (4) Synchronizer.	The unit does not pass the instrument mode checks. The unit does not pass the Level II performance checks.

(continued) Appendix B. Repairer PMCS

6515-01-291-1199
Defibrillator ECG Monitor/Recorder, Model HP 43110MC

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		c. Verify the following safety and maintenance checks as directed in the manufacturer's literature. (1) Power cord to chassis ground resistance check. (2) Paddle leakage current (source leakage) to ground. (3) Paddle leakage current (sink current) with 115 volts applied.	The unit does not pass the safety and maintenance checks.
		d. Verify the following adjustments as directed in the manufacturer's literature. (1) Defibrillator output energy calibration. (2) ECG gain adjustment. (3) ECG offset adjustment.	
		e. Update the Medical Equipment Verification/Certification sticker (DD Form 2163).	The defibrillator has not been verified within the last six months.
		f. Affix a Defibrillator Energy Output Certificate (DA Label 175).	The output has not been verified within the last six months.

6515-01-453-4003
Defibrillator ECG Monitor/Recorder, LIFEPAK 10

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Defibrillator**	
		a. Conduct an inventory to ensure that the items listed on the Parts and Accessories List are on hand.	Missing components or accessories prevent safe operation of the defibrillator.
		b. Ensure Operator Preventive Maintenance Checks and Services (PMCS) were completed.	The defibrillator fails Operator PMCS.
2	S	**Testing/Troubleshooting**	
		a. Conduct the “Performance Inspection Procedure” (PIP) as directed by the service manual.	
		(1) Perform the PIP “Physical Inspection” as directed by the service manual.	Damage precludes operation.
		(2) Perform the PIP “Power-On Sequence” as directed by the service manual.	Unit does not turn on.
		(3) Perform the PIP “Fault Stack Check” as directed by the service manual and record failure codes. Clear failure codes and exit.	Failure codes cannot be cleared.
		(4) Perform the PIP “Paper-Out Sensor and Recorder Speed” as directed by the service manual.	There is no NSR waveform, recorder operates with door open, and recorder does not operate with door closed, or the spacing between R waves is not 25 +/- 1mm.
		(5) Perform the PIP “Code Summary” as directed by the service manual.	The code summary does not indicate 60 bpm or defibrillator does not discharge.
		(6) Perform the PIP “Freeze and ECG Audio Checks” as directed by the service manual.	Display does not freeze, there is no audible ECG beep, or volume control does not function.
		(7) Perform the PIP “Preamplifier Baseline Noise and CAL Pulse Checks” as directed by the service manual.	ECG size does not change from X1.8 to X1.0, trace line is not less than 1mm thick, or vertical leading edge of pulse is not 10 +/-mm.
		(8) Perform the PIP “Heart Rate and Lead Polarity” as directed by the service manual while using an ECG simulator.	The displayed heart rate is not between 27 and 33 when 30 bpm is selected on the ECG simulator or is not between 233 and 247 when 240 bpm is selected or signal polarity is not the same as lead I when lead II is selected.

(continued) Appendix B. Repairer PMCS

6515-01-453-4003
Defibrillator ECG Monitor/Recorder, LIFEPAK 10

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(9) Perform the PIP "Synchronized Cardioversion" test as directed by the service manual.	The QRS sense markers do not appear on the CRT or are not printed on the recorder paper in "SYNC" mode, the "SYNC" annunciator is not visible on the status display or it does not blink with each R wave, the defibrillator discharges between R waves or fails to discharge on the next QRS complex, or the device does not exit SYNC mode after discharging.
		(10) Perform the PIP "Warm/Cold Restart Check" as directed by the service manual.	Unit fails restart tests.
		(11) Perform the PIP "Pacer Functional" as directed by the service manual while using an ECG simulator.	Unit fails any of the steps in the pacemaker functional tests.
		(12) Perform the PIP "Pacemaker Output Tests" as directed by the service manual while using a pacemaker tester.	Unit fails any of the steps in the pacemaker output test.
		(13) Perform the PIP "Defibrillator Control and QUIK-LOOK" as directed by the service manual.	Unit fails any of the steps in the defibrillator control and "QUIK-LOOK" tests.
		(14) Perform the PIP "Energy Output" as directed by the service manual.	Unit fails any of the steps in the energy output tests.
		(15) Perform the PIP "Refresh and Auto-Dump" as directed by the service manual.	Unit fails any of the steps in the refresh and auto-dump tests.
		(16) Perform the PIP "External Power Operation" as directed by the service manual.	Unit fails any of the steps in the external power operation.
		(17) Perform the PIP "Fault Stack Recheck" as directed by the service manual. Correct and clear any failure codes listed and return instrument to user's original settings.	Failure codes cannot be cleared.
		(18) Perform the PIP "Leakage Current" as directed by the service manual utilizing a safety analyzer. **NOTE: The leakage current test of certain models of the AC Auxiliary Power Module may fail. Contact USAMMA, Hill AFB for the update on the test.**	Unit fails leakage current test.

6515-01-453-4003
Defibrillator ECG Monitor/Recorder, LIFEPAK 10

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		b. Conduct the “Test and Calibration Procedure” (TCP) as needed and directed by the service manual.	Any of the calibration procedures cannot be accomplished.
		(1) Perform the following TCPs, listed under “System PCB Test and Calibration,” as directed by the service manual.	
		(a) “ECG Out and Preamp Gain”	
		(b) “CRT Display”	
		(c) “Brightness”	
		(d) “Modulated ECG Output”	
		(e) “QRS Marks”	
		(f) “Defibrillator Calibration”	
		(g) “Available Energy Display”	
		(2) Perform the following TCP “Chart/Pacer PCB Test and Calibration” procedures as directed by the service manual.	
		(a) “Recorder Calibration”	
		(b) “Frequency Calibration”	
		(c) “Output Gain”	
		c. Affix a Defibrillator Energy Output Certificate (DA Label 175).	The output has not been verified within the last six months.
		d. Update the Medical Equipment Verification/Certification sticker (DD Form 2163).	The unit has not been verified within the last six months.
3	S	**Battery Support System**	
		a. Perform the PIP as directed by the Battery Support Service Manual.	Damage precludes operation.
		(1) Perform the “AC Operation” procedure.	Battery support system fails to operate when connected to AC power source.
		(2) Perform the “Battery Charge/Discharge” procedure.	Battery charge/discharge test fails.

(continued) Appendix B. Repairer PMCS

6515-01-453-4003
Defibrillator ECG Monitor/Recorder, LIFEPAK 10

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(3) Perform the PIP "Keypad and Display Test."	Keypad and display Test fails.
		(4) Perform the PIP "Displayed Energy."	Displayed energy test fails.
		(5) Perform the PIP "A/D Check."	A/D check fails.
		(6) Perform the PIP "Battery Charge Current."	Battery charge current test fails.
		(7) Perform the PIP "Battery Discharge Current."	Battery discharge current test fails.
		(8) Perform the PIP "Shorted Battery Terminal Test."	Shorted battery terminal test fails.
		NOTE: Perform internal system inspection checking for loose hardware that may cause an electrical short circuit. Secure loose screws with Loctite® or equivalent.	
		NOTE: Loose screws, washers or internal hardware can cause burnt and melted batteries.	
		(9) Perform the PIP "Leakage Current," utilizing a safety analyzer.	Battery support system fails leakage current test.
		b. Perform the following TCPs as directed by the Battery Support Service Manual.	
		(1) Perform the TCP "Test Setup."	
		(2) Perform the TCP "Assembly Check."	
		(3) Perform the TCP "Self-Test."	
		(4) Perform the TCP "Displayed Energy Check with A LIFEPAK 5 or LIFEPAK 10" defibrillator/monitor.	
		c. Perform the cleaning procedures as directed by the Battery Support Service Manual.	
4	S	**AC Auxiliary Power Supply**	
		a. Conduct the PIP as directed by the AC Auxiliary Power Supply Service Manual.	
		b. Perform the PIP "LED Function" as directed by the AC Auxiliary Power Supply Service Manual.	LED function test fails.

6515-01-453-4003
Defibrillator ECG Monitor/Recorder, LIFEPAK 10

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		c. Perform the PIP “Output” procedure as directed by the AC Auxiliary Power Supply Service Manual.	Output test fails.
		d. Perform the PIP “Current Leakage” test utilizing safety analyzer. **NOTE: The leakage current test of certain models of the AC Auxiliary Power Module may fail. Contact USAMMA, Hill AFB for the update on the test.**	The unit fails the leakage current test.
		e. Update the Medical Equipment Verification/Certification sticker (DD Form 2163).	The unit has not been verified within the last six months.

(continued) Appendix B. Repairer PMCS

6520-01-139-1246
Compressor Dehydrator, Dental, M5 Series

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Compressor-Dehydrator**	
		a. Inventory the unit for all components and accessories according to the Equipment Parts and Accessories List.	Missing components or accessories prevent operation of the unit.
		b. Inspect the unit for any damaged or deteriorated hoses, tubes, cables, and other components.	Damaged or deteriorated components prevent operation of the unit.
		c. Inspect the unit for an excessive accumulation of dust or dirt. (Particular attention should be given to the intake silencer and fan guard.)	Unit overheats or does not operate.
		d. Verify the performance of the unit by following the “Operator Preventive Maintenance Checks and Services” checklist.	The unit is not operational.
		e. Verify that the humidity indicator is blue.	The humidity indicator is other than blue.
		f. Verify electrical safety.	The compressor-dehydrator fails any of the electrical safety tests.
2	S	**Air Storage Tank**	
		a. Verify that the tank does not leak by pushing the power switch to the OFF position and observing that the pressure holds at approximately 60psi for several minutes.	The tank cannot be pressurized or the tank leaks.
		b. Ensure that the hose(s) can be properly connected.	The hose(s) cannot be connected to the storage tank.
		c. Ensure pressure relief / drain valve opens and closes properly.	The valve cannot be opened or it leaks when closed.
3	S	**Case**	
		a. Inspect the case for signs of excessive wear.	The case cannot be used to store or ship the unit.
		b. Check the air relief valve.	The valve is inoperable, damaged, or missing.
4	S	**Pressure Gauge**	
		Check for dents, a cracked or broken dial cover, or gauge indications beyond the normal range.	The damaged indicator prevents operation of the unit.
5	S	**Running/Starting Capacitors**	
		Check for dents, a cracked or broken dial cover, or gauge indications beyond the normal range.	The damaged indicator prevents operation of the unit.

6520-01-139-1246
Compressor Dehydrator, Dental, M5 Series

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
6	S	**Safety Valve** Test for proper operation.	The valve is defective or inoperable.
7	S	**Unloader Valve** Test for proper operation.	The valve is defective or inoperable.
8	S	**Humidity Indicator** a. Inspect for dents, a cracked or missing indicator cover, or the lack of any color indication.	The damaged indicator prevents operation of the unit.
		b. Ensure that the indicator is blue.	The humidity indicator is other than blue.

(continued) Appendix B. Repairer PMCS

6520-01-272-4531
Dental Operating Unit, ADEC Model 3406 Porta-Cart

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Dental Unit**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts or Accessories List are on hand.	Missing components or accessories prevent the operation of the dental unit.
		b. Inspect components for damage, discoloration, or excessively worn components.	Unserviceable components prevent the use of the dental unit.
2	S	**Operational Checks**	
		a. Review the general service information as provided in the manufacturer's literature.	
		b. Check the air and water filters as directed in the manufacturer's literature.	The air pressure drops more than 15 psi or the water pressure drops more than 10 psi.
		c. Check the air and water regulator as directed in the manufacturer's literature.	The air regulator does not regulate between 60 psi to 80 psi or the water regulator does not regulate between 30 psi to 40 psi.
		d. Verify the operation of the "Century II Control System" as directed in the manufacturer's literature.	There are air or water leaks that prevent the use of the dental unit.
		e. Verify the operation of the three-way micro valves as directed in the manufacturer's literature.	The three-way micro valves do not control the flow of coolant air or coolant water.
		f. Verify the operation of the foot control valve as directed in the manufacturer's literature.	The foot control valve does not operate the handpieces.
		g. Verify the operation of the signal relay valve as directed in the manufacturer's literature.	The signal relay valve does not initiate the coolant air or coolant water.
		h. Verify the operation of the chip blower valve as directed in the manufacturer's literature.	The chip blower valve does not provide chip-air flow to the handpieces.
		i. Verify the operation of the three-way toggle valve as directed in the manufacturer's literature.	The three-way toggle valve does not pressurize or de-pressurize to water tank.
		j. Verify the operation of the needle valves as directed in the manufacturer's literature.	
		k. Verify the operation of the syringe as directed in the manufacturer's literature.	The syringe leaks air or water or does not pass air or water.

6520-01-272-4531
Dental Operating Unit, ADEC Model 3406 Porta-Cart

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		l. Verify the operation of the air vacuum system as directed in the manufacturer's literature.	The air vacuum system does not provide vacuum.
		m. Verify the operation of the air saliva ejector as directed in the manufacturer's literature.	The air saliva ejector does not provide vacuum.
3	S	**Storage Case** Inspect the storage case for cracks, dents, or broken latches.	

(continued) Appendix B. Repairer PMCS

6520-01-333-5961
Operating and Treatment Unit, Dental, Model FUS336

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Dental Unit**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories list are on hand.	Missing components or accessories prevent the operation of the dental unit.
		b. Review the “General Service Information” as provided in the manufacturer’s literature.	
		c. Check the air and water filters as directed in the manufacturer’s literature.	The air and water filters do not meet manufacturer’s specifications.
		d. Check the air and water regulator as directed in the manufacturer’s literature.	Air pressure is not 60 to 80 psi, and the water pressure is not 40 psi +/-5 psi.
		e. Verify the operation of the main control block as directed in the manufacturer’s literature.	The unit has air or water leaks.
		f. Verify the operation of the micro valves as directed in the manufacturer’s literature.	The micro valves should turn handpieces on and off without air leaks.
		g. Verify the operation of the foot control valve as directed in the manufacturer’s literature.	The foot control valve does not meet manufacturer’s specifications.
		h. Verify the operation of the signal relay valve as directed in the manufacturer’s literature.	The signal relay valve does not meet manufacturer’s specifications.
		i. Verify the operation of the chip blower valve as directed in the manufacturer’s literature.	Air leaks past the valve when it is turned “OFF.” Air leakage around the stem when the valve is “ON,” and/or downstream pressure exhausts when the valve is turned “OFF.” No air flows through the valve when it is turned “ON.”
		j. Verify the operation of the water pressure toggle valve as directed in the manufacturer’s literature.	The water pressure toggle valve does not meet manufacturer’s specifications.
		k. Verify the operation of the needle valves as directed in the manufacturer’s literature.	The needle valves do not meet manufacturer’s specifications.
		l. Verify the operation of the syringe as directed in the manufacturer’s literature.	The syringe has water or air leaks.
		m. Verify the operation of the air vacuum system as directed in the manufacturer’s literature.	The system develops an air leak around the “HV” button or the tube becomes crimped or develops a leak.
		n. Verify the operation of the air saliva ejector as directed in the manufacturer’s literature.	The air saliva ejector does not meet manufacturer’s specifications.

6520-01-333-5961
Operating and Treatment Unit, Dental, Model FUS336

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		o. Verify the operation of the foot control valve.	There is an audible leakage while the foot control is not being used, there is inadequate airflow from the foot control, or the foot control is sluggish.
2	S	**Storage Case** Inspect the storage case for cracks, dents, or broken latches.	

(continued) Appendix B. Repairer PMCS

6520-01-398-4613
Compressor Dehydrator, Dental, Model PAC 6.7

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	**Compressor Dehydrator**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts or Accessories List are on hand.	Missing interconnecting air hoses, with appropriate connectors, which connect compressor to dental operating and treatment unit.
		b. Inspect and verify that the compressor-dehydrator operates as directed by the “Operational Checkout” procedures in the Operator Preventative Maintenance Checks and Services.	The unit does not operate as directed by the operational checkout procedures.
		c. Verify electrical safety.	The compressor-dehydrator fails any of the safety tests.
2	A	**Air Storage Tank**	
		a. Inspect air tank for leaks, damage, or excessive rust.	Air tank leaks or damage or rust accumulation precludes operation.
		b. Inspect hoses and ensure that the hoses(s) can be properly connected.	The hose(s) cannot be connected to the storage tank.
		c. Ensure pressure relief/drain valve opens and closes properly.	The valve cannot be opened or it leaks when closed.
3	A	**Pressure Gauge**	
		Check for dents, a cracked or broken dial cover, or gauge indications beyond the normal range.	The pressure gauge does not function.
4	A	**Dryness Indicator**	
		a. Inspect for dents, a cracked or missing indicator cover, or the lack of any color indication.	The damaged indicator is unserviceable.
		b. Ensure that the indicator is blue.	The dryness indicator is other than blue.
5	A	**Case**	
		a. Inspect the case for signs of excessive wear.	
		b. Check the air relief valve.	

(continued) Appendix B. Repairer PMCS

6525-01-099-2320
X-Ray Apparatus Field Dental, Model D3152

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**X-Ray Apparatus Field Dental**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the dental unit.
		b. Assemble unit according to manufacturer's literature paying particular attention to the power voltage connection.	The unit cannot be assembled.
		c. Inspect unit for any damaged and cleanliness. Inspect for tightness, rust, cracks, wear, and fraying electrical cords.	The damage prevents the operation of the unit.
		d. Check for mechanical damage, possibly affecting radiation safety.	The damage prevents the operation of the unit or "leaks" unsafe levels of radiation.
		e. Verify electrical safety.	The x-ray apparatus fails any of the electrical safety tests.
		f. Check for tube head drift in all working positions.	The tube drift cannot be corrected by leveling the unit.
2	S	**Operational Check Out**	
		a. Perform "Line Adequacy Test" in accordance with manufacturer's literature.	The unit fails to perform.
		b. Perform maintenance check procedures in accordance with manufacturer's literature.	The unit fails to perform.
		(1) Verify power supply adequacy in accordance with the manufacturer's literature.	The power supply is inadequate.
		(2) Verify mA value in accordance with the manufacturer's literature.	The mA value is not within specifications.
		(3) Check exposure time in accordance with manufacturer's literature.	The exposure time is inaccurate.
		(4) Make mechanical adjustments (if required) as directed in the manufacturer's literature.	
		(5) Adjust brake as directed in the manufacturer's literature.	The brake cannot be adjusted

(continued) Appendix B. Repairer PMCS

6525-01-099-2320
X-Ray Apparatus Field Dental, Model D3152

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		c. Up-date the Medical Equipment Verification/Certification sticker (DD Form 2163).	The unit has not been verified within the last 12 months.
3	A	**Repacking**	
		Disconnect unit from power and repack according to manufacturer's literature.	The unit cannot be repacked.
4	B, A	**Case**	
		a. Inspect the case for signs of excessive wear.	
		b. Inspect gasket for damage or deterioration.	

6525-01-303-6235
X-Ray Process Machine, Model AFP14X3MIL

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**X-Ray Processor**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts or Accessories List are on hand.	Missing components or accessories prevent the operation of the unit.
		b. Inspect the processor for obvious signs of damage such as cracks, dents, leaks or broken components.	The damage to the processor prevents the operation.
		c. Install the processor according to the manufacturer's literature.	The processor cannot be installed.
		(1) Locate the processor in a darkroom location according to the manufacturer's literature.	
		(2) Connect the plumbing connections according to the manufacturer's literature.	The pluming cannot be connected.
		(a) Drain (b) Water Supply	
		(3) Connect the silver recovery system to the processor according to the manufacturer's literature.	
		(4) Install the replenishment system according to the manufacturer's literature.	The replenishment system cannot be installed.
		(5) Set the frequency adjustment to the processor as directed in the manufacturer's literature.	The frequency is not adjustable.
		(6) Perform the manufacturer's "Check Out" procedures.	The processor does not pass the checkout procedure.
		(7) Perform the manufacturer's "Final Set-Up" procedures.	The processor does not pass the final set-up procedures.
		d. Verify electrical safety.	The processor fails any of the electrical safety tests.
2	S	**Racks and Crossovers**	
		a. Clean all racks, crossovers, and splashguard.	
		b. Inspect gears, pins, bearings, and all wear surfaces.	
		c. Inspect rollers for wear or excessive build-up of residual matter.	The build-up of residual matter causes unreadable film.
		d. Inspect for worn or warped film guides.	

(continued) Appendix B. Repairer PMCS

6525-01-303-6235
X-Ray Process Machine, Model AFP14X3MIL

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		e. Inspect for loose fasteners.	
		f. Inspect transport of film through racks individually.	The film does not track through system.
3	S	**Tanks**	
		a. Clean tanks and inspect for algae build-up.	
		b. Inspect for evidence of leakage.	The tanks leak.
4.	S	**Drive Shaft**	
		a. Inspect mesh with rack gears.	The shaft does not line up with racks.
		b. Lubricate drive shaft and thrust bearing.	
		c. Inspect and grease plastic running gears on shaft.	
5	S	**Drive Motor and Chain**	The film does not track through system.
		a. Inspect for correct chain tension.	
		b. Lubricate the drive chain.	
		c. Lubricate output shaft bearing on the drive reducer.	
		d. Inspect motor operation and amperage draw.	
6	S	**Circulation System**	
		a. Inspect for clogged circulation lines.	The solution does not flow through the system.
		b. Inspect for evidence of leakage.	
		c. Inspect for circulation of tank solutions.	The solution does not flow through the system.
		d. Inspect for proper water solenoid activation.	The water does not flow through the system.
7	S	**Transport Rack**	
		a. Clean rack rollers.	
		b. Lubricate the dryer shaft bearings beneath the support bearing.	

(continued) Appendix B. Repairer PMCS

6525-01-303-6235
X-Ray Process Machine, Model AFP14X3MIL

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		c. Inspect for worn bearings and springs.	
		d. Inspect film transport through rack.	The film does not track through the system.
		e. Vacuum entire dryer section.	
8	S	**Air System**	
		a. Clean the blower and air ducts.	
		b. Clean the blower motor and check operation.	
		c. Inspect the amperage draw of blower motor.	
9	S	**Front Panel**	
		a. Inspect fuses.	
		b. Inspect the film activation switch.	The replenisher does not activate.
10		**Transport Timing**	The transport timing does not perform per manufacturer's specification.
		a. Inspect "FEED" indicator and audible signal timing.	
		b. Inspect for transport shutdown approximately 2-1/2 minutes after film exit.	
		c. Inspect the "JOG" function.	
11	S	**Temperature Control**	
		a. Verify temperatures against dial settings.	The temperature control does not function according to the manufacturer's literature.
		b. Inspect amp draw of developer and dryer heating elements.	
		c. Observe proportioning sequence of DS1 and DS2 on J3 PCB.	
12	S	**Replenishment System**	The replenishment system does not function according to the manufacturer's literature.
		a. Inspect for pump activation.	

(continued) Appendix B. Repairer PMCS

6525-01-303-6235
X-Ray Process Machine, Model AFP14X3MIL

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		b. Clean storage tanks and flush lines. c. Verify the replenishment rates. d. Verify the amperage draw. e. Inspect and clean level probes in developer tank.	
13	S	**General Cleaning** a. Clean off deposits under tanks. b. Clean the top cover. c. Clean the feed tray. d. Inspect and clean the base cabinet. e. Inspect the external water filter and replace as necessary. f. Check out and clean transport timing device per manufacturer's literature. g. Check out and clean temperature control per manufacturer's literature. h. Check out and clean replenishment system per manufacturer's literature.	

(continued) Appendix B. Repairer PMCS

6525-01-312-6411

X-Ray Apparatus, Radiographic/Fluoroscopic, Model CS-8952

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**X-Ray Apparatus**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts and Accessories List are on hand.	Missing components prevent the use of the x-ray unit.
		b. Unpack and install as directed by manufacturer's literature.	The unit cannot be installed.
		c. Ensure retrofit kit (consists of heavy steel brackets under each end of table) is installed for possible shipment.	The unit is unable to deploy.
		d. Inspect unit for damage, excessive rust to critical parts, bearing tracks and races, etc., or excessively worn components.	The unserviceable components prevent the use of the unit.
2	S	**X-Ray Operational Test**	
		a. Ensure each component is operational as directed by the manufacturer's literature.	Components not operational prevent the use of the x-ray unit.
		b. Ensure daily pre-operational systems checks were performed as directed by manufacturer's literature.	
		c. Verify the pre-calibration checks as directed by manufacturer's literature.	The unit is not prepared for calibration.
		d. Verify calibration before attempting the calibration procedures. **NOTE: Perform manufacturer's calibration procedures <u>ONLY</u> if x-ray apparatus does not meet manufacturer's specifications.** **WARNING: FOLLOW X-RAY TUBE WARM UP PROCEDURE AS DIRECTED BY MANUFACTURER'S LITERATURE.**	The unit is in need of calibration.
	A	e. Calibrate the unit as directed by the manufacturer's literature.	
		(1) Calibrate the generator as directed by manufacturer's literature.	
		(2) Calibrate the spot film device as directed by manufacturer's literature.	
		(3) Calibrate the under-table collimator as directed by manufacturer's literature.	

(continued) Appendix B. Repairer PMCS

6525-01-312-6411

X-Ray Apparatus, Radiographic/Fluoroscopic, Model CS-8952

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(4) Calibrate the over-table collimator as directed by manufacturer's literature. (5) Calibrate the automatic exposure control as directed by manufacturer's literature. (6) Verify the image intensifier as directed by manufacturer's literature. f. Update the Medical Equipment Verification / Certification sticker (DD Form 2163).	The unit has not been verified or calibrated within the last 12 months.

(continued) Appendix B. Repairer PMCS

6525-01-325-3740
Portable X-Ray System, Model 1200

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**X-Ray System**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components prevent the use of the X-Ray.
		b. Inspect unit for damage, discoloration, or excessively worn components.	Unserviceable components prevent the use of x-ray.
		c. Verify assembly of unit as directed by the manufacturer's literature.	The unit cannot be assembled.
		d. Verify the electrical safety.	The x-ray system fails any of the electrical safety tests.
2		**Periodic Maintenance**	
	M, Q	Perform the "Periodic Maintenance Schedule and Procedure" as directed by manufacturer's literature.	The maintenance cannot be completed.
	M	a. Clean the unit.	
	Q	b. Visually inspect unit; check electrical cables and connectors for bent, broken, or loose pins, cracked or broken insulators, weak, broken or loose pin connections, dirt, and corrosion; repair as required.	
	Q	c. Verify that unit meets all of the pre-operational check out procedures.	
	Q	d. Tighten any loose hardware.	
	Q	e. Touch up paint, any scratches, chips or exposed metal.	
3	S	**Alignment, Adjustment, Calibration and Checkout Procedures**	
		a. Perform the "Alignment, Adjustment, Calibration and Checkout" procedures as directed by the manufacturer's literature: (1) Line Voltage (2) Line Set (3) Calibration Set-Up (4) mA/kVp Calibration (5) Verify mA/kVp with 220 VAC/50Hz (6) Timer Test Data	The unit cannot be calibrated or verified as directed.

(continued) Appendix B. Repairer PMCS

6525-01-325-3740
Portable X-Ray System, Model 1200

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(7) Exposure Indication (8) Line Current (9) mAs Meter (10) Reproducibility (11) Half Value Layer (12) Leakage Test (13) Light Luminance (14) Beam Alignment (15) Final Step b. Update the Medical Equipment Verification/Certification label (DD Form 2163).	The unit has not been verified within the last 12 months.

6525-01-370-7552
Portable Dental X-Ray System, Model ALPHA MPDX

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**X-Ray System**	
		a. Verify that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the dental unit.
		b. Unpack and assembly as the x-ray unit as directed by manufacturer's literature.	The unit cannot be assembled.
2		**Preventive Maintenance Schedule and Procedures**	
	Q	a. Inspection/check procedures	The check out cannot be accomplished.
		(1) Visually inspect the unit as directed by the manufacturer's literature.	
		(2) Verify that the unit meets all of the pre-operational requirements according to the Operator Preventive Maintenance Checks and Services.	
		(3) Check all hardware connections for security. Tighten any loose connections.	
		(4) Inspect the unit for chips, scratches or exposed metal. Use touch-up paint to repair any damage to paint or finish.	
		(5) Perform corrective, adjustment or calibration procedures as required to resolve a malfunction, or perform periodic alignment adjustment and calibration functions in accordance with the schedule provided in manufacturer’s literature.	
	Q	b. Perform the cleaning procedures as directed by the manufacturer's literature.	
	S	c. Perform “Adjustment, Calibration and Test” as directed by the manufacturer's literature.	The adjustments and calibration cannot be accomplished.
		(1) Hi-Pot Test	Leakage or breakdown occurs at 1500V within 60 seconds.
		(2) Leakage Current	Leakage is more than 100 microamps.
		(3) Line Voltage Meter	
		(4) mA/kVp Calibration	
		(a) Calibration Set-up	
		(b) Line Voltage	
		(c) mA Calibration	X-ray will not calibrate to 7mA +/-10%.
		(d) kVp Calibration	X-ray will not calibrate to 70kVp +/-10%.

(continued) Appendix B. Repairer PMCS

6525-01-370-7552
Portable Dental X-Ray System, Model ALPHA MPDX

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(5) Timer Test Data	
		(a) Calibration	
		(b) Verification	Will not calibrate within +/-10% and +/-4ms.
		(6) Exposure Indication	Any indicators prevent safe operation.
		(7) Line Current	The current is not less than 7Amps
		(8) Half Value Layer	The results are not greater than 0.51.
		(9) Reproducibility	The results are not less than 0.02.
		(10) Leakage Test	Any reading exceeds 50mR.
		(11) Beam Limiting Device	Tolerance is not within 5.8 – 6.2cm.
		(12) Final Step	
		(13) Update the Medical Equipment Verification/Certification label (DD Form 2163).	The unit has not been verified within the last 12 months.
		(14) Verify electrical safety.	The x-ray system fails any of the electrical safety tests.
	S	d. Perform long term storage maintenance procedures as directed by the manufacturer's literature.	The unit cannot complete the degassing process.

6525-01-384-9296
X-Ray Apparatus, Model LCROKS

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	M	**X-Ray Apparatus** a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components prevent the use of the x-ray.
		b. Inspect unit for damage, discoloration, or excessively worn components	Unserviceable components prevent the use of x-ray.
2		**X-Ray Operational Test** **NOTE: Install the unit as direct by manufacturer's literature. Prepare x-ray tube for radiographic use in accordance with the manufacturer's break-in instructions.**	The unit cannot be installed.
		NOTE: An unseasoned tube will not calibrate and may develop hot spots.	
	A	a. Calibrate the unit as directed by the manufacturer's literature.	Unit cannot be calibrated.
	S	b. Perform the maintenance schedule checks as directed by the manufacturer's literature	
		(1) Perform external visual checks as directed by the manufacturer's literature.	
		(a) Check control panel stand, if so equipped for nicks, scratches, or dents.	
		(b) Check for proper seating of APR labels.	
		(c) Inspect unit for all warning labels, serial tags, UL and CSA tags.	The labels are missing, unreadable, or out dated.
		(2) Perform mechanical checks as directed by the manufacturer's literature.	
		(a) Check mechanical operation of control panel on/off and prep/expose switches.	X-ray does not operate or an electrical hazard exists.
		(b) Remove H.T. cables from transformer ports and check for proper level of oil. Check that H.T. cables are securely tightened.	Oil level is low or H.T. cables are not securely tightened.
		(c) Check connections on all cables on top of H.T. transformer.	The cables are not secure.
		(d) Check connections on all cables in electronics cabinet.	The cables are not secure.

(continued) Appendix B. Repairer PMCS

6525-01-384-9296
X-Ray Apparatus, Model LCROKS

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(e) Check connections on all cables in operator control panel.	The cables are not secure.
		(3) Perform operational checks as directed by the manufacturer's literature.	X-ray does not operate or an electrical hazard exists.
		(a) Check for power-up sequence.	
		(b) Check for operation of control panel switches; run fault diagnostics.	
		(c) Check for operation of control panel LEDs; run fault diagnostics.	
		(d) Check for operation of control panel display; run fault diagnostics.	
		(e) Check for operation of control panel to generator communications; run fault diagnostics.	
		(f) Check +5V power supply.	
		(g) Check +15V power supply.	
		(h) Check +24V power supply.	
		(i) Depress "PREP" switch and check that control panel display reads "READY."	
		(j) Depress "EXPOSURE" switch; listen for audible indicator to sound and check control panel for exposure indicator light.	
		(k) Check that "BUT" logic works – "BUT" LED should light.	
		(l) Check for actual mAs indication in display.	
		(m) Check that another AEC exposure cannot be made.	
		(n) Check that the reset button resets the "BUT" and another exposure can be made.	
		(o) Check kV, mA, and time accuracy.	
		(p) Check PT station(s) for density.	

6525-01-384-9296
X-Ray Apparatus, Model LCROKS

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(4) Regrease high tension cables as directed by manufacturer's literature	
		(5) Replace NVRAM every 72 months as directed by the manufacturer's literature.	
		(6) Perform “Final Appearance Checks” as directed by the manufacturer’s literature.	
		(a) Clean all exposed exterior surfaces of the Clinix VP4 Generator.	
		(b) Check that all mounting hardware is secure and all covers are in place.	The mounting hardware is not secured.
	A	c. Update Medical Equipment Verification/Certification label (DD Form 2361)	The unit has not been verified within the last 12 months.

(continued) Appendix B. Repairer PMCS

6525-01-422-6122
X-Ray Processor with Daylight Loader, Model MM190

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	**X-Ray Processor**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the unit.
		b. Inspect the processor for obvious signs of damage such as cracks, dents, leaks or broken components.	Damage to the processor prevents the operation.
2	A	**Installation of the Processor**	
		Verify that the processor has been installed according to the Operator Preventive Maintenance Checks and Services.	
3	A	**Maintenance Program**	
		a. Verify that the processor has been maintained according to the Operator Preventive Maintenance Checks and Services.	
		b. Once a year, after extended (90 days plus) storage periods, and following a routine monthly cleaning, perform the following tasks on the processor:	
		(1) Inspect the drive gears on each transport assembly and replace any gears that are excessively worn or damaged.	
		(2) Refer to Service Procedure 5-1. Inspect and adjust or replace, if necessary, the main drive belt.	
		(3) Refer to Service Procedure 5-2. Inspect and clean the fixer and wash circulation pumps. Developer pumps are usually cleaned adequately by systems cleaning and do not require additional servicing.	
		(4) Refer to Service Procedure 5-3. Inspect and clean developer and fixer replenishment pumps.	
		(5) Refer to Figure 4-2, Maintenance Log and Figure 4-3, Lubrication Points and lubricate as indicated.	
		NOTE: Be sure to clean off all old lubricants and any excessive new lubricants.	
		c. Read and/or be familiar with the “Special Maintenance Notes and Information for Long Term Storage and Inspection” section.	
		d. Verify that the processor passes all electrical safety tests.	The processor fails any of the electrical safety tests.

6530-00-926-2151
Sterilizer, Surgical Dressing 16X36 in., Model M-138

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Sterilizer** a. Verify the components and accessories according to the Operator Preventive Maintenance Checks and Services.	The shelves are missing.
		b. Inspect the unit for obvious signs of damage such as cracks, dents, leaks, or broken components.	
2	S	**Sterilizer Operational** a. Ensure that the unit is set up and assembled properly as directed by the Operator Preventive Maintenance Checks and Services.	
		b. Ensure unit is wired per data plate diagram to conform to incoming power.	Unit cannot be wired according to diagram.
		c. Inspect door for proper operation. Ensure hinges are properly lubricated. Inspect door gasket for damage or deterioration.	Sterilizer door does not close and seal.
		d. Inspect the case for damage. Ensure hinges and latches are properly lubricated.	Damage prevents operation of the unit.
3	S	**Sterilizer Jacket** Verify operation of the sterilizer jacket according to the Operator Preventive Maintenance Checks and Services.	Jacket leaks or cannot be filled with water.
		WARNING: LIFT THE RELIEF HANDLE OF THE SAFETY VALVE OR TURN OPERATING VALVE TO THE DRY POSITION TO RELEASE ANY PRESSURE IN THE JACKET BEFORE REMOVING THE PLUG FROM THE FILLING FUNNEL. FILL THE STERILIZER JACKET WITH THE PUREST WATER AVAILABLE AND INSPECT FOR WATER LEAKS. INSPECT THE WATER LEVEL INDICATOR GAUGE AND ENSURE WATER IS AT LEAST AT ¼ MARK.	Water level indicator gauge is broken or excessive mineral deposits obscure the reading of the water level.
4	S	**Operation Valve** a. Conduct operating valve checks.	Operating valve leaks or does not operate properly.
		b. Verify the increase in pressure and test the safety valve by depressing the safety lever.	Pressure does not increase or if the safety valve does not release pressure when depressed.

(continued) Appendix B. Repairer PMCS

6530-01-327-0686
Ventilator, Volume, Portable, Model 750M

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Ventilator**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the ventilator.
		b. Inspect hoses, fittings, and regulators for cracks, crimps, leakage, discoloration, damaged connector fittings, or general wear as directed in the manufacturer's literature.	Unserviceable accessories prevent use of the ventilator.
2	S	**Preventative Maintenance Inspections**	
		a. Perform visual checks as directed in the manufacturer's literature.	The inspections do not pass standards.
		b. Perform performance checks as directed in the manufacturer's literature.	The inspections do not pass standards.
		c. Clean unit as directed in the manufacturer's literature.	
3	S	**Case**	
		Check for wear, loose or missing hardware, and cracks as directed in the manufacturer's literature.	The unserviceable case prevents protective storage, safe movement, or operation of the unit.
4	S	**Battery**	
		a. Test the control module for operation using the internal battery as directed in the manufacturer's literature.	Use of the battery causes an alarm condition.
		b. Check for a battery alarm as directed in the manufacturer's literature.	
5	S	**Multivoltage Power Supply**	
		a. Check the power supply for worn, cracked, or damaged connectors as directed in the manufacturer's literature.	The ventilator cannot be operated or if an electrical hazard is present.
		b. Test the operation of the power supply and the integrated battery charger as directed in the manufacturer's literature.	The multivoltage power supply is inoperable.
		c. Verify that electrical safety tests have been performed as scheduled as directed in the manufacturer's literature.	The unit fails any safety test.

6530-01-327-0686
Ventilator, Volume, Portable, Model 750M

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
6	S	**Patient Valve** Check for cracks, leakage, discoloration, and general wear as directed in the manufacturer's literature.	The patient valve is inoperable, malfunctioning, or endangers the patient.
7	S	**Control Module** a. Check for tactile feel of all controls. Verify operation of controls as directed in the manufacturer's literature.	Any control is inoperable.
		b. Verify completion of self-test as directed in the manufacturer's literature.	Any portion of the self-test fails or aborts.
		c. Verify transducer calibration as directed in the manufacturer's literature.	The transducer fails calibration test.
		d. Check the various modes of operation as directed in the manufacturer's literature. (1) Verify the control ventilation – with/without “SIGH” - with/without “PEEP” as directed in the manufacturer's literature. (2) Verify the assist-control ventilation – with/without “SIGH” – with/without “PEEP” as directed in the manufacturer's literature. (3) Verify the synchronized intermittent mandatory ventilation (SIMV) – with/without “SIGH” – with/without “PEEP” as directed in the manufacturer's literature. (4) Verify the assist-control backup during apnea – with/without “SIGH” – with/without “PEEP” as directed in the manufacturer's literature.	The ventilator does not operate in any of the modes of operation.
		e. Update the Medical Equipment Verification/Certification sticker (DD Form 2163).	The unit has not been verified within the last six (6) months.

(continued) Appendix B. Repairer PMCS

6530-01-374-8903
Portable Ventilator, Model 15304

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	**Ventilator**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the ventilator.
		b. Inspect hoses, fittings, and regulators for cracks, crimps, leakage, discoloration, damaged connector fittings, or excessive wear as directed in the manufacturer's literature.	Unserviceable components and accessories prevent the use of the ventilator.
		c. Verify electrical safety.	The ventilator fails any of the electrical safety tests.
2	A	**Preventive Maintenance**	
		NOTE: Before using the Bird Avian Portable Ventilator®, the repairer should read and understand all warnings and cautions in the manufacturer's literature.	
		Complete the preventive maintenance inspection procedures outlined in the manufacturer's literature.	There is damage to the battery or if there are missing components that preclude operation of the unit.
		NOTE: Complete ventilator maintenance will be required at a minimum of once every two years.	
3	A	**Testing Procedures**	
		a. Adjust the following controls as indicated below, per the manufacturer's literature:	
		(1) Breath Rate: 12 bpm	
		(2) Assist Sensitivity: -4cm H_2O	
		(3) Over Pressure: Maximum	
		(4) Inspiratory Time: 0.5 Seconds	
		(5) Flow: 60 lpm	
		(6) High Pressure Alarm: 5 cm H_2O above the peak reading. (To set this alarm, press the PIP button to obtain the peak pressure, then set the alarm 5 cm H_2O above the peak reading.)	
		(7) Low Pressure Alarm: 10 cm H_2O below the peak reading.	

(continued) Appendix B. Repairer PMCS

6530-01-374-8903
Portable Ventilator, Model 15304

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		NOTE: Read the entire test procedures outlined in the manufacturer's literature before performing the tests.	
		b. Internal Self Test	The automatic internal checks cannot be verified.
		(1) Alarm Silence/Reset	The alarm cannot be silenced.
		(2) Apnea Alarm	The alarm fails to activate after 20 seconds.
		(3) Breath Rate	The breath rate does not match within +/-1 bpm.
		(4) Disconnect and Low Peak Pressure Alarms	The “Disconnect” or the “Low Pressure” audible/visual alarm does not activate.
		(5) Self CAL/Display Test Mode	The unit does not display “PASS” on the monitor display. The indicators do not illuminate.
		(6) Flow	The proper flows do not display on the pneumatic test set.
		(7) High Peak Pressure Alarm	The “High Peak Pressure” audible/visual alarms do not activate and Inspiration does not terminate.
		(8) I:E Ratio Alarm	The audible and visual “I:E Ratio” alarms do not activate immediately.
		(9) Demand Flow/Assist Sensitivity	Flow of 60 lpm +/-6 lpm does not display on the pneumatic test set.
		(10) Inspiratory Time	The setting that is displayed on the ventilator does not compare to that of the pneumatic test set display.
		(11) Leak Check	The difference of the readings are not less than 5 cm H_2O.
		(12) Power Indicator	The green LED does not light.
		(13) Sigh Breath	The next breath tidal volume is not 750ml +/-75ml as measured on the pneumatic test set.

(continued) Appendix B. Repairer PMCS

6530-01-374-8903
Portable Ventilator, Model 15304

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
		(14) Over Pressure Relief	Airway pressure is not as stated in the procedure.
		(15) PEEP Not Set Alarm	Alarms do not activate.
		(16) Pressure Transducer	The pneumatic test set does not read 100cm +/-5 cm H_2O.
		(17) Battery Low/Fail Manual Breath	The “Battery Low/Fail” light does not activate as stated in the procedure.
		(18) External Power Low/Fail Alarm	The “External Power” indicator does not activate as stated in the procedure.
		(19) Anti-Suffocation Valve	The pressure displayed on the pneumatic test set goes below –4 cm H_2O.
		c. Verify that the verification/certification sticker (DD Form 2163) has a current date.	The unit has not been verified within the last six (6) months.

6540-00-116-5780
Edging Machine Ophthalmic Lens, Model Horizon II

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	**Edging Machine**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand	Missing components or accessories prevent the operation of the edging machine.
		b. Inspect the unit for any damaged or excessively worn components.	Damaged or deteriorated components prevent the operation of the edging machine.
		c. Be familiar with the control panel as directed by the Operators Preventive Maintenance Checks and Services.	Being unfamiliar with the controls will prevent the operation of the edging machine.
2	A	**Periodic Maintenance**	
		a. Verify that the daily, bi-weekly, monthly, and periodic preventive maintenance was performed as directed by the Operator Preventive Maintenance Checks and Services.	
		b. Inspect the cutter motor brushes for wear as directed by the manufacturer's literature.	
		c. Verify electrical safety.	The edging machine fails any of the electrical safety tests.

(continued) Appendix B. Repairer PMCS

6630-01-300-8711
Analyzer, Sodium Potassium, Model 614

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	Q	**Analyzer Sodium, Potassium**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the analyzer.
		b. Inspect the unit for dust, dirt, damage, or excessively worn components.	Unserviceable components prevent the use of the unit.
		c. Verify electrical safety.	The analyzer fails any of the electrical safety tests.
		d. Update the Medical Equipment Verification/Certification label (DD Form 2163).	The analyzer has not been verified within the last six (6) months.
2	Q	**Installation**	
		Verify the installation of the unit according to the Operator Preventive Maintenance Checks and Services.	The unit cannot be installed.
3	Q	**Power Up Routine**	
		Verify that the unit powers up according to the Operator Preventive Maintenance Checks and Services.	The unit fails to perform the power up routine.
4	Q	**Analyzer Operational Test**	
		Verify operational test according to the Operator Preventive Maintenance Checks and Services.	The unit fails the operational test.
5	Q	**Daily Maintenance**	
		Verify the daily maintenance according to the Operator Preventive Maintenance Checks and Services.	The unit fails to perform the daily maintenance checks.
6	Q	**Quarterly Maintenance**	
		Verify the quarterly maintenance according to the Operator Preventive Maintenance Checks and Services.	

6630-01-316-5085
Centrifugal Hematology Analyzer System with
QBC II Reader, Model 4477 and QBC Centrifuge, Model 4207

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	Q	**Centrifugal Hematology Analyzer System**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation.
		b. Inspect the unit for dust, dirt, damage, or excessively worn components.	Unserviceable components prevent the use of the unit.
2	Q	**Installation**	
		Verify the installation of the system is according to the Operator Preventive Maintenance Checks and Services.	System cannot be installed according to manufacturer's specifications.
3	Q	**Operational Test**	
		Verify operational test of the system according to the Operator Preventive Maintenance Checks and Services.	System fails the operational test in accordance with the manufacturer's literature.
4	Q	**Daily Calibration check, QBC II**	
		Verify the daily calibration of the unit according to the Operator Preventive Maintenance Checks and Services.	The unit fails the daily calibration in accordance with the manufacturer's literature.
5	Q	**Maintenance**	
		a. Perform maintenance inspections in accordance with manufacturer's literature.	The system or any of its components fail to perform in accordance with the manufacturer's literature.
		b. Verify electrical safety.	The system fails any of the electrical safety tests.
6	Q	c. Update the Medical Equipment Verification/Certification sticker (DD Form 2163)	The unit has not been verified within the last 12 months.

(continued) Appendix B. Repairer PMCS

6630-01-364-8555
Analyzer, Blood Gas, 4300M

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Analyzer, Blood Gas (GEM Stat)**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts or Accessories List are on hand.	Missing components or accessories prevent the operation.
		b. Inspect the unit for exterior damage such as cracks or dents. Inspect the power cord for cracks or tears.	Damage or deteriorated components prevent the operation of the unit.
		c. Verify electrical safety.	The analyzer fails any of the electrical safety tests.
2	S	**Operational Check Out**	
		a. Perform the basic system operational tests according to the manufacturer's literature. (1) Basic operation (2) Real time clock (3) Printer test (4) Clock battery test (5) Power fail test (6) Software verification (7) Keyboard test (8) Display test (9) Valve cartridge actuator test (10) Pump motor speed test (11) Printer test (12) Simulator test (13) Thermal test	The unit fails any of the basic operational tests.
		b. Update the Medical Equipment Verification/Certification label (DD Form 2163).	The unit has not been verified within the last 12 months.

6630-01-376-9823
Analyzer, Clinical Chemistry, DT60

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	S	**Analyzer, Clinical Chemistry**	
		a. Conduct an inventory to ensure that the items listed on the Equipment Parts and Accessories List are on hand.	Missing components or accessories prevent the operation of the DT60 system.
		b. Inspect the unit for dust, dirt, damage, or excessively worn components.	Damage or deteriorated components prevent the operation of the unit.
		c. Verify the installation of the equipment according to the Operator Preventative Maintenance Checks and Services.	
		d. Perform the procedures listed under Item 3, “Operating Instructions” in the Operator Preventative Maintenance Checks and Services.	
		e. Verify the “Calibration” procedure according to the Operator Preventative Maintenance Checks and Services.	
		f. Perform the “Instrument Care and Cleaning” procedures according to the Operator Preventative Maintenance Checks and Services.	
		g. Verify electrical safety.	The analyzer fails any of the electrical safety tests.
		h. Update the Medical Equipment Verification/Certification label (DD Form 2361).	The unit has not been verified within the last six (6) months.

(continued) Appendix B. Repairer PMCS

6630-01-526-7373
Analyzer, Urine Chemistry, Model Clinitek 500

[M-Monthly, Q-Quarterly, S-Semiannually, and A-Annually]

ITEM NO	INTERVAL	ITEM TO BE INSPECTED AND PROCEDURE	IS NOT MISSION CAPABLE IF:
1	A	**Analyzer**	
		a. Conduct an inventory to ensure that the items listed in the Equipment Parts or Accessories List are on hand.	Missing parts or accessories preclude operation of the analyzer.
		b. Inspect the electrical power cord for cuts, fraying, or deterioration..	Damage or deteriorated components prevent the operation of the unit.
		c. Perform “Start-up” procedures in accordance with operating instructions.	The analyzer fails to start-up.
2	A	**Display**	Display is blank. See Service Manual, section 9-4.
3	A	**Fixed Table**	The moving table is not in the lowest position.
4	A	**Printer**	Missing reports have been flagged for confirmatory report, and edit flagged result is on. See Service Manual, section 7-3-4-2.
5	A	**Push Bar**	Push bar does not move to the right after a strip is placed onto the platform. See Service Manual, section 7-3-6-3.
6	A	**Touch Screen**	Touch screen does not respond correctly. See Service Manual, figure 7-7-1.